WHAT IS CLAIMED IS:

1	. 1	A computer system for optimizing processing of an annotation			
2	request from a client, comprising:				
3	a	request processor for receiving said annotation request from said client;			
4	a	ask queue for storing a plurality of constituent tasks that need to be			
5	performed for said annotation request;				
6	a	hread-controlling means for maintaining a plurality of threads; and			
7	aı	assigning means for assigning said plurality of threads to said plurality			
8	of constituent tasks in said task queue.				
1	2.	A computer system according to claim 1, wherein said plurality of			
2	threads is indepe	ident from said plurality of constituent tasks stored in said task queue.			
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1	3.	A computer system according to claim 1, wherein said plurality of			
2	threads is persistent.				
1	4.	A computer system according to claim 1, wherein said plurality of			
2	constituent tasks is arranged in a substantially first-in-first-out basis within said task				
3	queue.	•			
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1	5.	A computer system according to claim 1, wherein when a thread is			
2	available for assignment, said thread is assigned to a constituent task when said				
3	constituent task i	s ready for execution.			
l	6.	A computer system according to claim 5, wherein said assigned			
2	thread is released	upon conclusion of said constituent task.			
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2	7.	A computer system according to claim 1, wherein said plurality of			
2	constituent tasks includes checking a cache to determine whether information pertaining to said annotation request is present in said cache.				
,	to said annotation	request is present in said cache.			
l	8.	A computer system according to claim 1, wherein said plurality of			
2	constituent tasks includes retrieving information pertaining to said annotation request				
3	from one or more	sources.			
	9.	A computer system according to claim 8, wherein said one or more			
2	sources include the				

1	10. A computer system according to claim 1, wherein said plurality of				
2	constituent tasks includes annotating a retrieved web page with additional hyperlinks.				
1	11. A computer system according to claim 1, wherein said plurality of				
2	constituent tasks includes updating a cache with annotated information.				
1	12. A computer system according to claim 1, further comprising:				
2	a I/O queue for storing a plurality of I/O tasks identified from said				
3	plurality of constituent tasks, wherein said plurality of I/O tasks only perform input and/or				
4	output functions.				
1	13. A computer system according to claim 12, wherein two or more of				
2	said plurality of I/O tasks are executed in a parallel manner.				
1	14. A computer system according to claim 12, wherein said task queue				
2	is notified upon completion of each of said plurality of I/O tasks.				
1	15. A computer system according to claim 14, wherein upon said				
2	notification one or more of said plurality of constituent tasks which require results from				
3	said executed I/O tasks are rendered ready for execution.				
1	16. A computer system for optimizing processing of an annotation				
2	request, comprising:				
3	a task queue for storing a plurality of requisite tasks needed to execute said				
4	annotation request; and				
5	a thread-controlling means for controlling a thread pool having a plurality				
6	of threads;				
7	wherein said thread-controlling means assigns an available thread from				
8	said thread pool to an execution-ready requisite task.				
1	17. A computer system according to claim 16, said thread pool is				
2	independent of said plurality of requisite tasks.				
1	18. A computer system according to claim 16, wherein said assigned				
2	thread is released back into said thread pool for subsequent assignment when the				
3	execution of said execution-ready requisite task is completed.				

ı		19.	A method for optimizing processing of an annotation request			
2	received from a client, comprising the steps of:					
3		identi	fying a plurality of constituent tasks needed to complete the			
4	execution of said annotation request;					
5		storing	g said plurality of constituent tasks into a task queue;			
6		maint	aining a plurality of threads assignable to said plurality of constituent			
7	tasks; and					
8		assign	ing an available thread to a constituent task when said constituent			
9	task is ready for execution.					
1		20.	A method according to claim 19, further comprising the steps of:			
2		identi	fying a plurality of I/O tasks from said plurality of constituent tasks;			
3		storing	g said plurality of I/O tasks into an I/O queue; and			
4		execu	ting two or more of said plurality of I/O tasks in a parallel manner.			
1		21.	A method according to claim 20, further comprising the step of:			
2		render	ring one or more constituent tasks which require results from said			
3	executed I/O tasks ready for execution.					
1		22.	A method according to claim 19, wherein said plurality of threads			
2	is persistent.					
1		23.	A method according to claim 19, wherein said assigning of said			
2	available thread to said constituent task is independent of the nature of said constituent					
3	task.		-			